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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/826,134	04/04/2001	David K. Vavro	INTL-0546-US (P11105)	2324	
21906	7590 04/05/2006		EXAMINER		
TROP PRUNER & HU, PC 8554 KATY FREEWAY			MEONSKE, TONIA L		
SUITE 100	REE WITT		ART UNIT	PAPER NUMBER	
HOUSTON, TX 77024			2181		

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No	o. ,	Applicant(s)			
Office Action Summary		09/826,134	09/826,134 VAVRO, DAV		'ID K.		
		Examiner		Art Unit	T:		
		Tonia L. Meons	ske	2181			
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Status					<u>.</u>		
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3)	, <del>-</del>						
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Disposit	ion of Claims	•			•		
4)🖂	Claim(s) 1-17 is/are pending in the applicatio	on.		•	•		
, —	4a) Of the above claim(s) is/are withdr	awn from conside	eration.				
5)	Claim(s) is/are allowed.				•		
6)🖂	Claim(s) 1-17 is/are rejected.			•			
7)	Claim(s) is/are objected to.				•		
8)	Claim(s) are subject to restriction and	or election requir	rement.				
Applicat	ion Papers	,					
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•	The specification is objected to by the Examir			F.,			
10)	The drawing(s) filed on is/are: a) ac	-	•				
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11)	Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	•	- , ,	•	* '		
'')	The dath of declaration is objected to by the t	Examiner. Note tr	ie attached Office	Action or form i	P10-152.		
Priority ι	ınder 35 U.S.C. § 119	•	* •				
12)	Acknowledgment is made of a claim for foreig	an priority under 3	35 U.S.C. § 119(a)	)-(d) or (f).			
	☐ All b)☐ Some * c)☐ None of:	, <b>,</b>	3(0)	, (-) (-)-			
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	e of References Cited (PTO-892)	. 4)	Interview Summary				
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	r No(s)/Mail Date	6)	Other:		•		

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 2. Referring to claim 1, in line 5, the limitation "enabling the given central processing unit to reset its indicator..." is unclear. According to Merriam-Webster's online dictionary, the definition of enable is "to make possible". Is the claim stating to enable, or make it possible, for the central processing unit to reset it indicator, OR actually causing the central processing unit to reset it's indicator? Examiner suggests changing "enabling" to "causing".
- 3. For similar reasons, claims 8 and 11-17 are also unclear. Examiner suggests the following changes:
  - a. In claim 8, line 1,
    - i. please change "enabling" to "causing".
  - a. In claim 11, line 2,
  - b. claim 11, line 6,
  - c. claim 12, line 2,
  - d. claim 13, line 2,
  - e. claim 14, line 2,
  - f. claim 15, line 2,
  - g. claim 16, line 2, and
  - h. claim 17, line 2

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i. please change "enable" to "cause". Appropriate correction is required.

4. Claims 2-10 are rejected for incorporating the defects of claim 1.

### Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title:

- 6. Claims 1, 8, and 11-17 are rejected under 35 U.S.C. 101 because they fail to produce a useful, concrete, and tangible result.
- Referring to claim 1, the result of the claim appears in lines 5-6 which is "enabling the given central processing unit to reset its indicator when the data in said register is no longer useful to the given central processing unit". This claimed result is not tangible. According to Merriam-Webster's online dictionary, the definition of enable is "to make possible". Making something possible is not a tangible result. Appropriate correction is required. Examiner suggests changing "enabling" to "causing".
- 8. Referring to claim 8, the result of the claim appears in lines 1-2 which is "enabling a plurality of central processing units to access a register at the same time." This claimed result is not tangible. According to Merriam-Webster's online dictionary, the definition of enable is "to make possible". Making something possible is not a tangible result. Appropriate correction is required. Examiner suggests changing "enabling" to "causing".
- 9. Referring to claim 11, lines 2 and 6, the limitation "enable" appears in the result of the claim. This claimed result is not tangible. According to Merriam-Webster's online dictionary, the definition of enable is "to make possible". Making something possible is not a tangible result. Appropriate correction is required. Examiner suggests changing "enable" to "cause".

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*10.* Now assume for the sake of argument that the 101 problems with the term "enable" in

claim 11, lines 2 and 6 are non-existent. In claim 11, lines 1 and 2, the limitation "if executed"

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means that the instructions are not necessarily executed. This means that sometimes a useful,

concrete, and tangible result is produced and other times not. When the instructions are not

executed then the claim fails to produce a useful, concrete, and tangible result. Appropriate

correction is required. Examiner suggests changing "if executed" to "when executed".

11. Referring to claims 12-17, in line 2 of each claim the limitation starting with "enable" is

the result of the claim. This claimed result is not tangible. According to Merriam-Webster's

online dictionary, the definition of enable is "to make possible". Making something possible is

not a tangible result. Appropriate correction is required. Examiner suggests changing "enable"

to "cause" in claims 12-17.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Chastain et al., 13.

US Patent 5,050,070 (hereinafter Chastain).

14. Referring to claim 1, Chastain has taught a method comprising:

> providing a register accessible by a plurality of central processing units (abstract, a.

Figure 1, elements 46 and 48); and

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b. indicating whether data in said register is available for a given central processing unit by providing different indicators assigned to each of a plurality of central processing units (Figure 3, communication register frame, column 7, line 8-column 8, line 43, column 9, lines 4-47, column 5, line 5-column 6, line 16) and enabling the given central

processing unit to reset its indicator when the data in said register is no longer useful to

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- the given central processing unit (column 8, lines 29-36, "fork posted").
- 15. Referring to claim 2, Chastain has taught the method of claim 1, as described above, and including indicating for each of a plurality of central processing unit whether the data is available for a given central processing unit (column 5, lines 5-column 6, line 16, "fork lock", "fork posted", and other info stored in Figure 3).
- 16. Referring to claim 3, Chastain has taught the method of claim 2, as described above, and including requiring a central processing unit to wait to execute an instruction until the data it needs to execute the instruction is available in one or more registers (column 8, lines 35-43).
- 17. Referring to claim 4, Chastain has taught the method of claim 3, as described above, and including providing a bit for each item of data indicating whether a given central processing unit can access that data (column 8, lines 29-43).
- 18. Referring to claim 5, Chastain has taught the method of claim 4, as described above, and including resetting said bit when said data is accessed by a given central processing unit (column 8, lines 29-43).
- 19. Referring to claim 6, Chastain has taught the method of claim 1, as described above, and including preventing any central processing unit from writing data to said register until all of the

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indicators for the plurality of central processing units indicate that the data is no longer useful to any other central processing unit (column 8, lines 29-43, "fork lock").

- 20. Referring to claim 7, Chastain has taught the method of claim 6, as described above, and including indicating the central processing unit which will utilize the data written into the register (Figure 3, column 8, lines 3-43).
- 21. Referring to claim 8, Chastain has taught the method of claim 1, as described above, and includes enabling a plurality of central processing units to access a register at the same time (column 4, lines 32-46, semaphores).
- 22. Referring to claim 9, Chastain has taught the method of claim 1, as described above, and including providing specialized central processing units for mathematical operations (Figure 1, element 57, column 7, lines 9-26) and for memory (column 4, lines 17-24).
- 23. Referring to claim 10, Chastain has taught the method of claim 1, as described above, and including providing an input central processing unit (column 4, lines 1-10 and 46-50, All of the n processors input data.), an output central processing unit (column 4, lines 1-10 and 46-50, All of the n processors output data.) and coupling said input, output and specialized central processing units to said register through a cross-bar connection (Figure 1, column 4, lines 1-10 and 46-66, elements 50, 51, and 52).
- 24. Claims 11-17 do not recite limitations above the claimed invention set forth in claims 1-7, respectively, and are therefore rejected for the same reasons set forth in the rejection of claims 1-7 above.

#### Response to Arguments

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25. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

- 26. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 28. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tonia L. Meonske whose telephone number is (571) 272-4170. The examiner can normally be reached on Monday-Friday, with every other Friday off.
- 29. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fritz Fleming can be reached on (571) 272-4145. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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30. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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